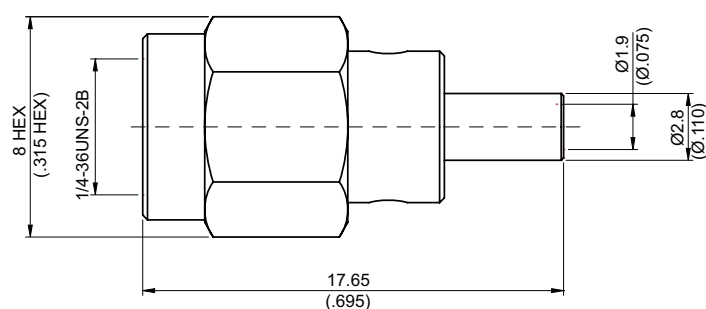


SMA3300A-0178

**SMA Plug Solder For RG178**  
**6GHz VSWR 1.2**

**50Ω**



| Parts         | Material         | Plating (Micro-inch)                                  |
|---------------|------------------|-------------------------------------------------------|
| Contact Pin   | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Retainer Ring | Beryllium Copper | Tin-Zinc-Copper-Alloy 100 Over Copper 50              |
| Gasket        | Silicon          |                                                       |
| Insulator     | Teflon           |                                                       |
| Body          | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |
| Coupling Nut  | Brass            | Gold 4 Over Nickel-Phosphorus Alloy 80 Over Copper 20 |

Suitable Cables: RG178, RG178-FEP, RG196

**This part number complies with RoHS.**

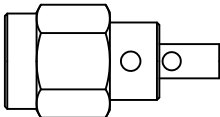
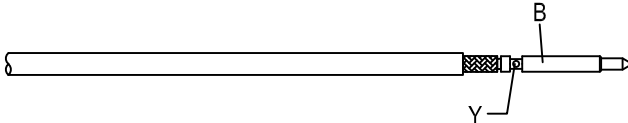
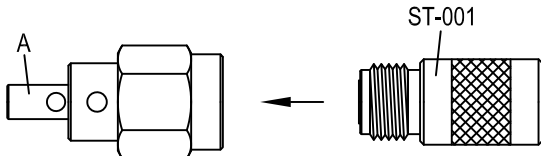
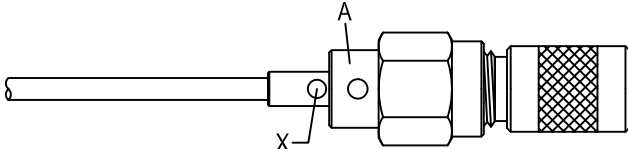
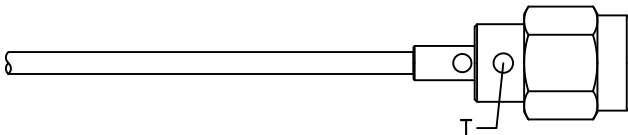
**Notice: JYEBAO reserves the right to make modifications deemed appropriate.**

| SMA                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SMA3300A-0178 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <div>Interface</div> MIL-STD-348B<br>Mechanically compatible with 2.92 & 3.5                                                                                                                                                                                                                                                                                                                                                                             |               |
| <div>Electrical Data</div> Impedance 50Ω<br>Frequency range DC to 6GHz<br>VSWR $\leq 1.2$ (DC to 6GHz)<br>Insertion loss $\leq 0.04 \times \sqrt{f(\text{GHz})}$ dB<br>Insulation resistance $\geq 5000\text{M}\Omega$<br>Contact resistance inner conductor $\leq 3\text{m}\Omega$<br>Contact resistance outer conductor $\leq 2\text{m}\Omega$<br>Dielectric withstanding voltage (at sea level) 750 V rms<br>Working voltage (at sea level) 250 V rms |               |
| <div>Mechanical Data</div> Recommended coupling nut torque 4 inch lbs<br>Coupling proof torque 5.3 inch lbs<br>Coupling nut retention force $\geq 60.7$ lbs<br>Contact Captivation-axial $\geq 6.1$ lbs<br>Durability (mating) $\geq 100$                                                                                                                                                                                                                |               |
| <div>Environmental Data</div> Temperature range -40°C to +165°C<br>Thermal shock MIL-STD-202, Method 107, Condition B<br>Moisture resistance MIL-STD-202, Method 106<br>Corrosion MIL-STD-202, Method 101, Condition B<br>RoHS Compliant                                                                                                                                                                                                                 |               |
| <div>Tooling</div> Locator tool ST-001                                                                                                                                                                                                                                                                                                                                                                                                                   |               |

Notice: JYEBAO reserves the right to make modifications deemed appropriate.

# JYE BAO CO., LTD.

## CABLE ASSEMBLY INSTRUCTION

|                                                                                                                     |  |                                                                                                            |            |         |   |
|---------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------|------------|---------|---|
| SMA3300A-0178                                                                                                       |  | DATE                                                                                                       | 2018/06/01 | REV     | — |
| A                                                                                                                   |  | B                                                                                                          |            |         |   |
|                                    |  |                          |            |         |   |
| BODY                                                                                                                |  | CONTACT PIN                                                                                                |            |         |   |
| DIAGRAM                                                                                                             |  | ASSEMBLY INSTRUCTION                                                                                       |            |         |   |
|                                   |  | Step 1: STRIP AS SHOWN.<br>Step 2: TIN DIP.                                                                |            |         |   |
|                                  |  | Step 3: PUT PIN " B " ON CENTER CONDUCTOR AND SOLDER IN " Y ".                                             |            |         |   |
|                                  |  | Step 4: SCREW LOCATOR TOOL "ST-001" INTO THE CONNECTOR BODY " A ".                                         |            |         |   |
|                                  |  | Step 5: SLIDE CABLE INTO CONNECTOR BODY "A" AND SOLDER IN " X ".                                           |            |         |   |
|                                  |  | Step 6: FILL EPOXY IN " T " .<br><br>CURE FOR 3 HOURS AT ROOM TEMPERATURE, AFTER THAT FOR 8 HOURS AT 60°c. |            |         |   |
| This part number complies with RoHS.<br>Notice: JYEBAO reserves the right to make modifications deemed appropriate. |  |                                                                                                            |            |         |   |
| APPROVED                                                                                                            |  | CHECKED                                                                                                    |            | DRAWING |   |
|                                                                                                                     |  |                                                                                                            |            | Albert  |   |

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